



## **Deepwater Horizon Incident, Gulf of Mexico**

### **Region 6 REOC Update**

**Subject:** Region 6 Update # 7  
Deepwater Horizon Incident, Gulf of Mexico

**Date:** May 4, 2010

**To:** Incident Command

**Thru:** Planning Section

**From:** Situation Unit

**Reporting Period:** May 3, 2010 1300 – May 4, 2010 1300

### **1. Background**

<b>Site Name:</b>	Deepwater Horizon Incident	<b>FPN#:</b>	N10036
<b>Mobilization Date:</b>	4/27/2010	<b>Start Date:</b>	4/28/2010

### **2. Current Situation**

#### **2.1 Area Command Post**

- One EPA Representative is at Incident Command (Houma) and another EPA Representative is at Area Command (Robert).
- EPA Rep is coordinating with Environmental, Safety, SCAT, and Operations Units to:
  - Obtain copies of requested plans;
  - Obtain environmental data plans and maps;
  - Obtain situation documents;
  - Coordinating the use of ASPECT for anticipated in-situ burn activities.
- Working with BP on establishing sub-sea dispersant testing and establishment of potential protocols.
- Coordinating Community Involvement support between Coast Guard and EPA.
- Acquired air monitoring data for worker health and safety collected off-shore, at the spill location in the Gulf.
- Coordinated sampling methodology and data dispersion plans between Unified Command and EPA.

## 2.2 Air Monitoring/Sampling

- Venice air monitoring for particulates and VOCs is ongoing (See attached map for locations):
  - Venice, LA - 29.25274 N, 89.35750 W - V02 - located at USCG (ongoing monitoring);
  - Boothville, LA - 29.31449 N, 89.38433 W - V03 - located at Welding Supply Co. (ongoing monitoring);
  - Fort Jackson, LA - 29.35714 N, 89.45605 W - V04 (ongoing monitoring).
- Chalmette operations established 3 air monitoring stations (VOCs and particulates):
  - Chalmette, LA – 29.94562, -89.9721 – C01 - located at Fire Station number 3, near corner of Jackson Street and Judge Perez
  - Poydras, LA – 29.86609, -89.89108 – C02 - located at Fire Station number 8
  - Hopedale, LA – 29.82209, -89.60862 – C03 - located at the Emergency Operations Center
- Each air monitoring location has 4 pieces of air equipment:
  - DataRAM - monitoring particulate matter;
  - AreaRae - monitoring VOCs;
  - PQ200 - samples for PM10 (particulates);
  - SUMMA Canisters per location - sample for VOCs.
- Overnight air monitoring operations were hindered by the exhaustion of batteries during 24 hour use. Solution: extra battery packs obtained and the addition of marine batteries have also been obtained to extend battery life.
- Heavy rains in Chalmette and Venice required the rigging of tarps to protect the monitoring stations and continue air monitoring activities.
- All air monitoring/sampling stations are monitored throughout the day (24 hours) for immediate reporting of any elevated VOC or particulate levels. The maximum reading is reported to the Venice Command Post.
- Real-time air monitoring data from midnight to midnight each day is reviewed for field QA and uploaded into SCRIBE by 1200 each day and available to EPA Headquarters.
- 12 Suma canisters (for VOC) were collected during this operational period. Samples will be shipped before noon today. The 3 Filter (for particulate) samples were prepared for shipment. To ensure proper temperature the filter samples will be held on ice and shipped Tuesday. 12 Summa and 3 filter samples will be shipped Tuesday.
- Venice operations are relocating air sampling/monitoring location V04 due to increased traffic on road nearby causing dusty conditions.

- **EPA summary of air monitoring/sampling activities:**

<b>Air Monitoring &amp; Samples</b>	<b>DataRAM (PM10)</b>	<b>AreaRae</b>	<b>SUMMA Canisters</b>	<b>PM2.5</b>	<b>TOTALS FOR 5/3</b>
<b>Venice</b>	3 locs/24- hr	3 locs/24- hr	9	3	12
<b>Chalmette</b>	3 locs/24- hr	3 locs/24- hr	12	3	15
<b>TOTAL TO DATE</b>	6 locs/24- hr	6 locs/24- hr	55	18	

\*QAQC samples not included in sample count

## 2.3 Water/Sediment Sampling

- EPA continues to conduct water and sediment sampling at locations provided by EPA Headquarters and selected through National Coastline Condition Assessment (NCCA) program. The NCCA sample locations are sampled every four years by state agencies with U.S. Coastlines. Sample parameters and locations were also selected in coordination with the EPA Region 6 Water Quality Division.
- Water and sediment sampling in the Chalmette area were initiated on 5/2. Three water and sediment samples were collected in the Chalmette area on 5/2. The sampling team did not observe oil or odor; one oiled brown pelican was observed.
- Water and sediment sampling was not conducted on 5/3 due to poor weather conditions and fuel logistics issues (resolved). Water/sediment sampling team prepared for deployment to the Lake Borgne area to collect samples from the predetermined NCA-10 locations on 5/04.
- Chalmette water operations are prevented from water and sediment sampling for 5/3 due to inclement weather and by marine gas restrictions imposed by BP contracts with marine fuel providers. Unified command resolved this issue and Chalmette water operations will resume on 5/4.
- Two teams from Venice water operations collected water and sediment samples from four locations, but were prevented from further sampling by inclement weather. No oil was observed by the team closer to shore or by the team further into open water
- Two teams from Venice water operations are collecting sediment and water samples on 5/3.
- EPA summary of water/sediment activities

<b>Water/Sediment Samples</b>	<b>Water</b>	<b>Sediment</b>	<b>TOTALS FOR 5/3</b>
<b>Venice</b>	7	3	10
<b>Chalmette</b>	0	0	0
<b>TOTAL TO DATE</b>	23	18	

\*QAQC samples not included in sample count

## 2.4 TAGA

- TAGA 1553 monitored from Venice, La, to Belle Chasse, LA. TAGA personnel are processing the data.

## 2.5 ASPECT

- ASPECT conducted an over flight along the marshes of Chandeleur Islands and showed no detections. Oil was observed in a number of photos and in InfraRed imagery. Flight operations were interrupted by the Presidential visit (due to air space restrictions) and inclement weather.
- ASPECT plane is continuing to conduct overflights at the direction of EPA Representative based on current conditions provided by field teams and BP operations. Specifically, overflights will occur during dispersant applications and in-situ burns.
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- ASPECT has returned to base and we are loading 60 data runs into the local servers. Pilot reports indicate that many beaches are oiled but the marshes show little visible change from yesterday.
- Crew is on station in the rig area. They can see visible oil through very intense haze/fog. They are working to collect spectral data over an area that appears to have several ships working

## 2.7 Water Quality Protection Division Update

- The Region 6 Water Quality Protection Division provided a situation update including impact analysis, monitoring and assessment, and drinking water (see attached).

## 2.6 Summary of Air Quality Testing In Residential and Commercial Areas Along the Gulf Coast reported by CTEH (Center for Toxicology and Environmental Health) from 5/1

	# of Measurements	Avg Concentration	Maximum Concentration
VOCs	393	0.001	0.2
Hydrogen Sulfide	353	0	0
Sulfur Dioxide	24	0	0
Benzene	22	0	0
Total	792		

### 3. EPA Assets

#### 3.1 Current Assets Deployed

- Activated in Dallas, TX
  - REOC is activated
  - SRICT activated
  - RRT activated

#### Deployed Personnel

Personnel	Dallas, TX	Venice, LA	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Slidell, LA	TOTALS
<b>EPA</b>								
- OSC	6	1		2		1		10
- RSC	4		1	1				6
- PIO			3					3
- Other					1			1
<b>START</b>	4	14				12		30
<b>ERT Contractor</b>		1						1
<b>TAGA Personnel</b>							10	10
<b>ASPECT Personnel</b>							4	4
<b>Other</b>								
<b>TOTALS</b>	14	16	4	3	1	13	14	65

#### Deployed Equipment

Equipment	Dallas, TX	Venice, LA	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Slidell, LA	TOTALS
<b>Mobile Command Post</b>		1						1
<b>ASPECT</b>							1	1
<b>TAGA Bus</b>							2	2
<b>TOTALS</b>		1					3	4

#### 3.2 Future Assets Deployed

- Additional OSCs as needed
- START personnel

#### 4. Daily Cost Estimates

	EPA Personnel Est. Spent	EPA Travel Est. Spent	EPA Contracts Est. Spent	TOTAL Est. Spent	TOTAL Obligations	Balance	Est. Daily Burn Rate
EPA Funded	\$53,200	\$9,850	\$411,000	\$474,050	\$655,754	\$0	\$110,200
TOTAL EPA Funded	\$53,200	\$9,850	\$411,000	\$474,050	\$655,754	\$0	\$110,200

USCG PRFA FPN N10036	\$0	\$0	\$	\$0	\$0	\$0	\$0
TOTAL OPA	\$0	\$0	\$	\$0	\$0	\$0	\$0


Louisiana Total	\$53,200	\$9,850	\$411,000	\$474,050	\$655,754	\$0	\$110,200
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Figure 1 - Surface Water Sampling in Venice, LA

# Monitoring/Sampling Locations



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>★ Asset Location 4/30/2010</li> <li>Oil Spill Trajectory 050210@0351 (Estimated)</li> <li>★ Air Monitoring Location</li> <li>○ Sediment Sampling Location</li> <li>● Surface Water Sampling Location</li> </ul>			<div>  <div> <p><b>US EPA REGION 6</b></p> <p><b>START-3</b></p> </div> </div> <div> <p>Situation and Sampling Map</p> <table border="1"> <tr> <td>DATE: 5/3/2010</td> <td>W.O.#</td> <td>SCALE:</td> </tr> </table> </div>	DATE: 5/3/2010	W.O.#	SCALE:
DATE: 5/3/2010	W.O.#	SCALE:				



# Trajectory Map

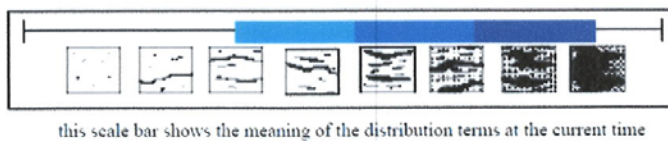
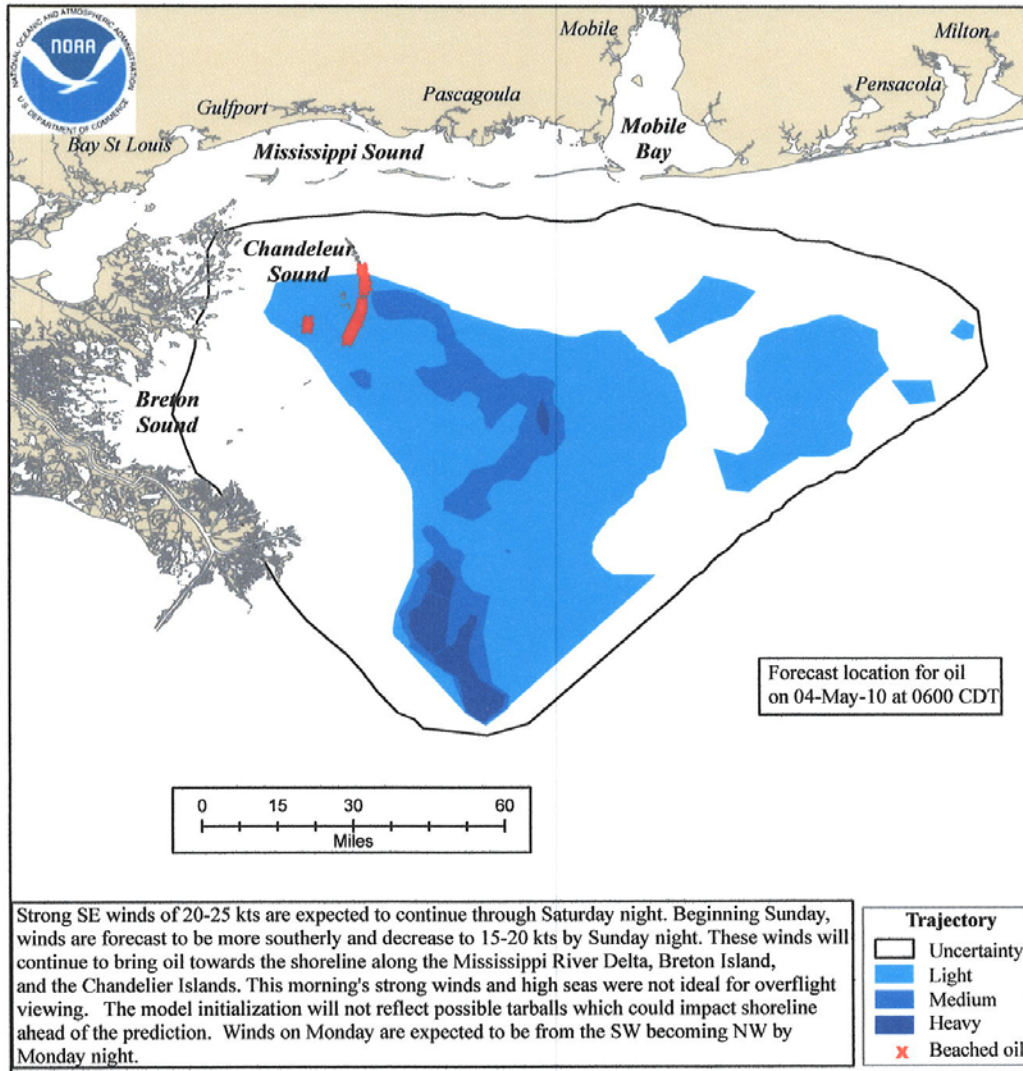
## Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 0600 CDT, Tuesday 5/04/10

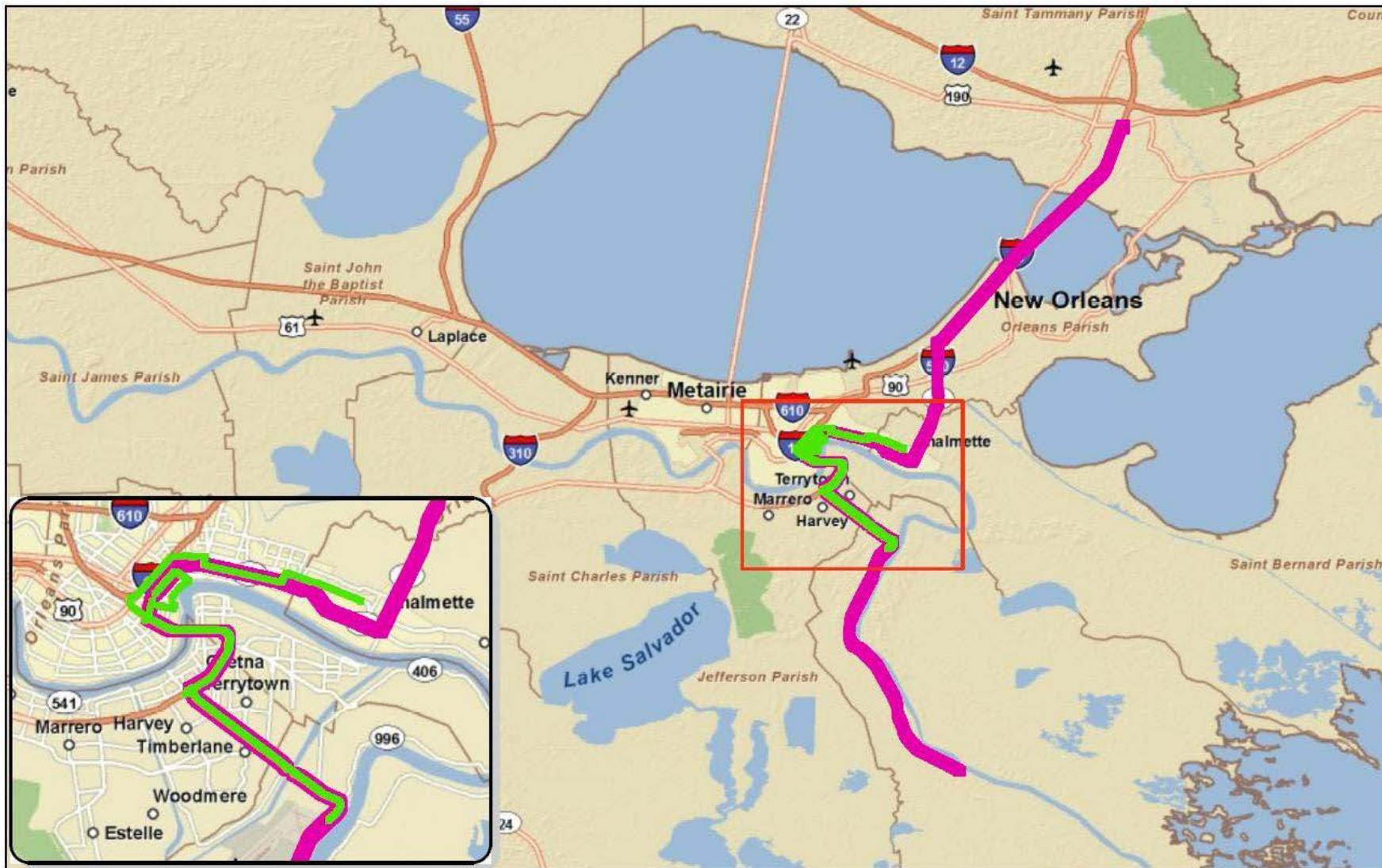
Date Prepared: 1600 CDT, Saturday 5/01/10

This forecast is based on the NWS spot forecast from Saturday, May 1 AM. Currents were obtained from the NOAA Gulf of Mexico model, TexasA&M/TGLO, and NAVO models. The model was initialized from Friday morning and afternoon overflight data. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization).





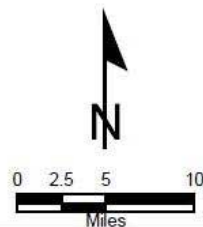
# TAGA Path



## Legend

### TAGA

- 4/30/2010
- 5/1/2010



**US EPA REGION 6  
START-3**

TAGA Paths 4/30/2010

DATE:

5/2/2010

W.O#

SCALE:

1 in = 9 miles